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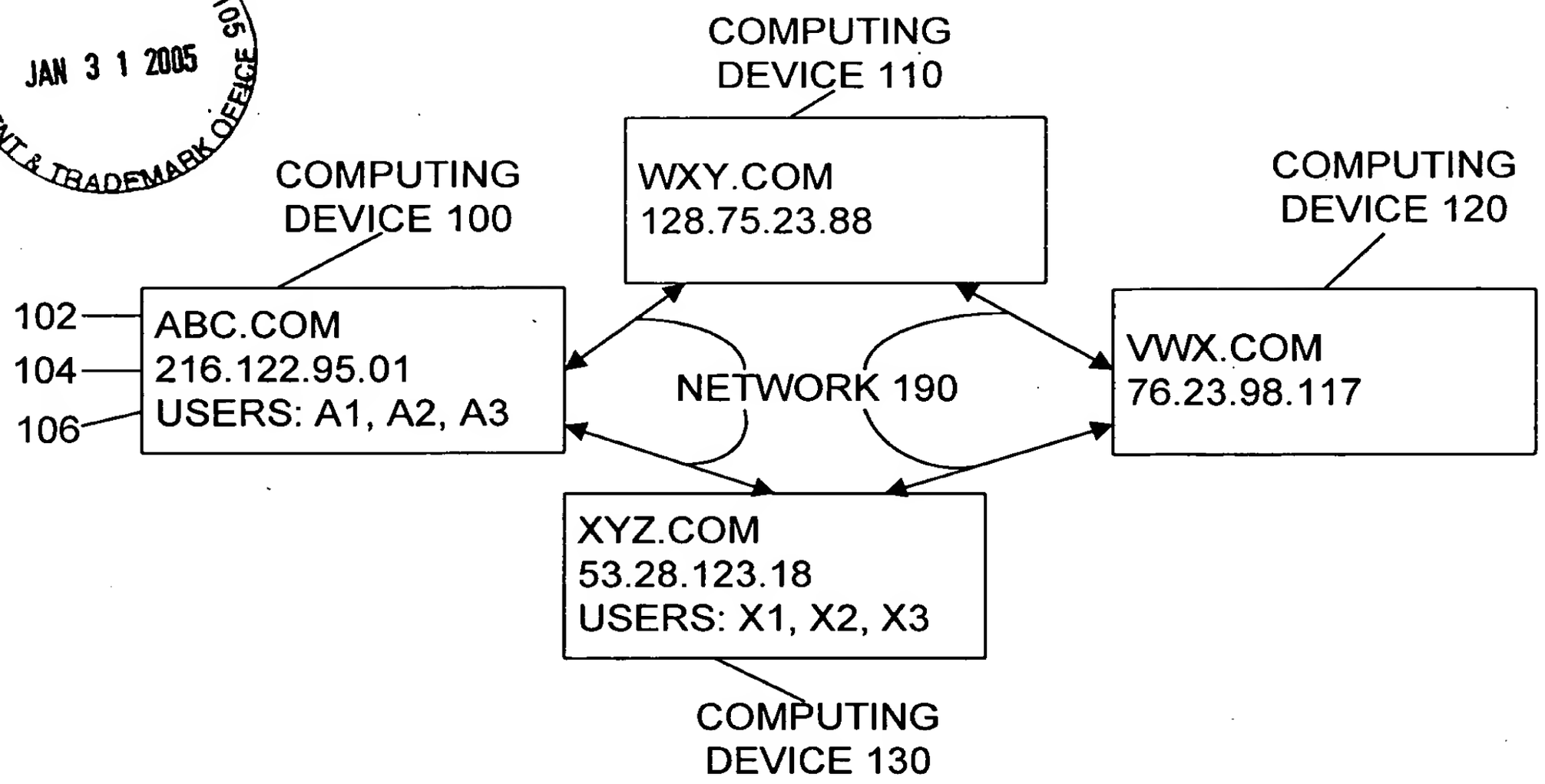

FIG. 1A (PRIOR ART)

Example message generated by User A1's local mail program

Date: Mon, 27 Nov 00 10:18:52
From: "Alan Smith" <a1@abc.com>
To: x1@xyz.com, a2
Subject: Test Message

This message is a test. The end.

FIG. 1B (PRIOR ART)

Example message as modified by local computing device 100 Sendmail program

From a1@abc.com Mon Nov 27 10:19:23 2000
Message-Id: <9631121611.AA02124@abc.com>
Date: Mon, 27 Nov 00 10:18:52
From: "Alan Smith" <a1@abc.com>
To: x1@xyz.com, a2
Subject: Test Message

This message is a test. The end.

FIG. 1C (PRIOR ART)

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Example message as modified by remote computing device 130 Sendmail program

From a1@abc.comMon Nov 27 10:19:23 2000
Received: From abc.com [216.122.95.01] by xyz.com (8.8.4/8.8.4)
with ESMTP id BF02C24; Mon, 27 Nov 2000 10:21:46
Message-Id: <9631121611.AA02124@abc.com>
Date: Mon, 27 Nov 00 10:18:52
From: "Alan Smith" <a1@abc.com>
To: x1@xyz.com, a2
Subject: Test Message

This message is a test. The end.

FIG. 1D (PRIOR ART)

Example SMTP exchange as computer device 100 Sendmail
Connects to computing device 130 Sendmail

220-xyz.com Sendmail 8.6.12/8.5 ready at Mon, 27 Nov 2000 10:22:23 –8—
220 ESMTP spoken here
>>>EHLO abc.com
250-xyz.com Hello abc.com, pleased to meet you
250 –EXPN
250-SIZE
250 HELP
>>>MAIL From:<a1@abc.com>
250 <a1@abc.com>… Sender ok
>>>RCPT To:<x1@xyz.com>
250 <x1@xyz.com> … Recipient ok
>>>DATA
354 Enter mail, end with "." on a line by itself
{The message illustrated in Figure 1C is transmitted}
>>>.
250 GAA20115 Message accepted for delivery
x1@xyz.com … Sent (GAA20115 Message accepted for delivery)
Closing connection to xyz.com
>>>QUIT
221 xyz.com closing connection

FIG. 1E (PRIOR ART)

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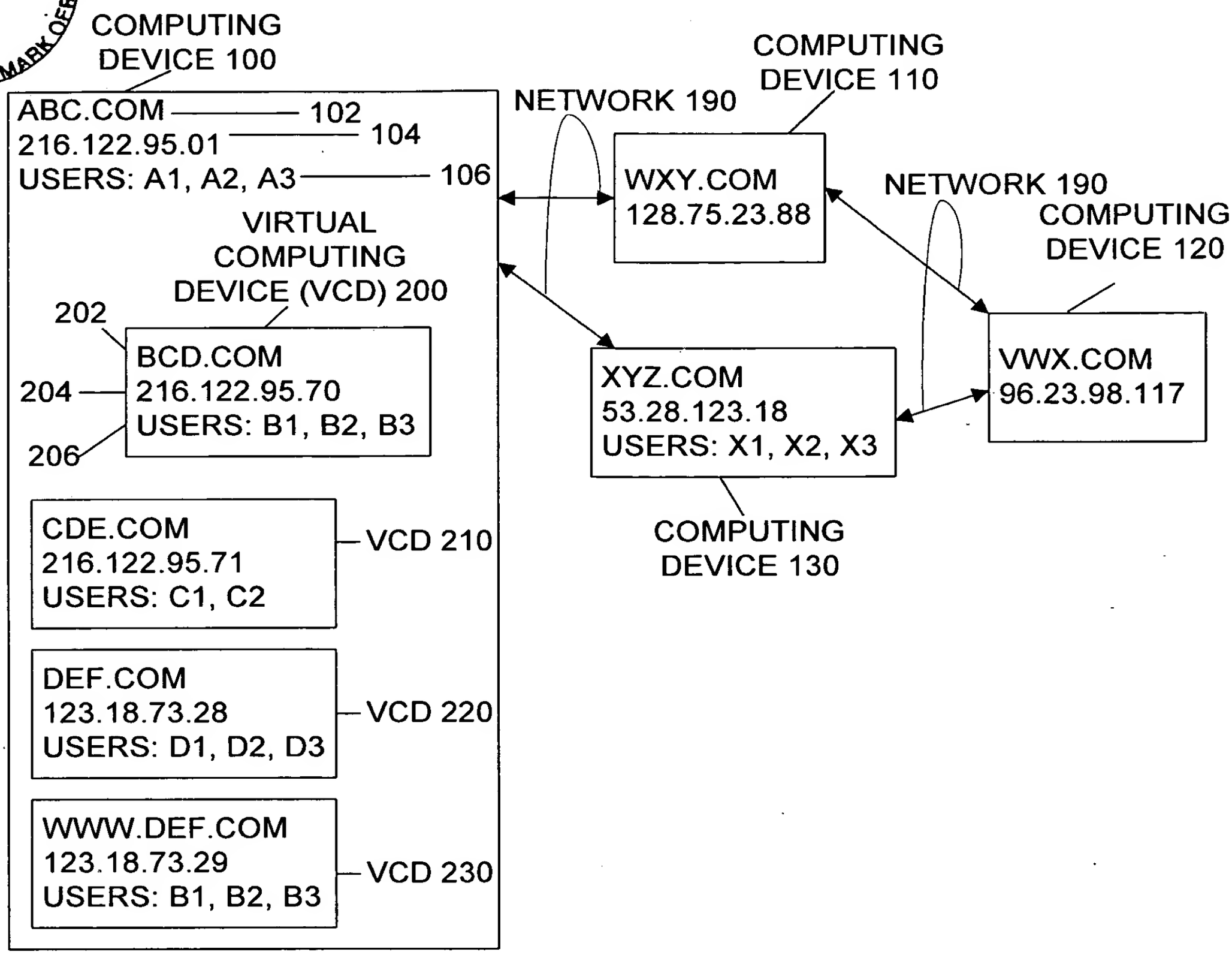

FIG. 2A

Example message generated by User B1's local mail program

Date: Mon, 27 Nov 00 10:18:52
From: "Bob Smith" <b1@bcd.com>
To: x1@xyz.com, b2
Subject: Test Message 2

This message is a test. The end.

FIG. 2B

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Example message as modified by virtual computing device 200 Sendmail program

From b1@bcd.com Mon Nov 27 10:19:23 2000
Message-Id: <3431121623.4B0213D@bcd.com>
Date: Mon, 27 Nov 00 10:18:52
From: "Bob Smith" <b1@bcd.com>
To: x1@xyz.com, b2
Subject: Test Message 2

This message is a test. The end.

FIG. 2C

Example message as modified by remote computing device 130 Sendmail program

From a1@abc.comMon Nov 27 10:19:23 2000
Received: **from abc.com [216.122.95.01]** by xyz.com (8.8.4/8.8.4)
with ESMTP id CD0A224; Mon, 27 Nov 2000 10:21:46
Message-Id: <3431121623.4B0213D@bcd.com>
Date: Mon, 27 Nov 00 10:18:52
From: "Bob Smith" <b1@bcd.com>
To: x1@xyz.com, b2
Subject: Test Message 2

This message is a test. The end.

FIG. 2D

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Example SMTP exchange as virtual computing device 200 Sendmail connects to computing device 130 Sendmail

220-xyz.com Sendmail 8.6.12/8.5 ready at Mon, 27 Nov 2000 10:22:23 – 0800
220 ESMTP spoken here
>>>EHLO bcd.com
250-xyz.com Hello bcd.com (abc.com), pleased to meet you
250-EXPN
250-SIZE
250 HELP
>>>MAIL From:<b1@bcd.com>
250 <b1@bcd.com> … Sender ok
>>>RCPT To:<x1@xyz.com>
250 <x1@zxyz.com> … Recipient ok
>>>DATA
354 Enter mail, end with "." on a line by itself
{The message illustrated in Figure 2C is transmitted}
>>>.
250 GAA20115 Message accepted for delivery
x1@xyz.com … Sent (GAA20115 Message accepted for delivery)
Closing connection to xyz.com
>>>QUIT
221 xzy.com closing connection

Error file

Host abc.com claimed to be bcd.com

FIG. 2E

Example message as modified by remote computing device 130 Sendmail program
when sent by Virtual Domain Sendmail program on computing device 100

From b1@bcd.com Mon Nov 27 10:19:23 2000
Received: **from bcd.com [216.122.95.70]** by xyz.com (8.8.4/8.8.4)
with ESMTP id CD0A224; Mon, 27 Nov 2000 10:21:46
Message-Id: <3431121623.4B0213D@bcd.com>
Date: Mon, 27 Nov 00 10:18:52
From: "Bob Smith" <b1@bcd.com>
To: x1@xyz.com., b2
Subject: Test Message 2

This message is a test. The end.

FIG. 3A

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Example SMTP exchange as Virtual Domain Sendmail program on computing device 100 connects to computing device 130

220-xyz.com Sendmail 8.6.12/8.5 ready at Mon, 27 Nov 2000
10:22:23 – 0800
220 ESMTP spoken here
>>>EHLO bcd.com
250-xyz.com Hello bcd.com, pleased to meet you
250-EXPN
250-SIZE
250 HELP
>>>MAIL From:<b1@bcd.com>
250 <b1@bcd.com>…Sender ok
>>>RCPT To:x1@xyz.com
250 <x1@xyz.com>…Recipient ok
>>>DATA
354 Enter mail, end with "." on a line by itself
{*The message illustrated in Figure 2C is transmitted*}
>>>.
250 GAA20115 Message accepted for delivery
x1@xyz.com… Sent (GAA20115 Message accepted for delivery)
Closing connection to xyz.com
>>>QUIT
221 xyz.com closing connection

FIG. 3B

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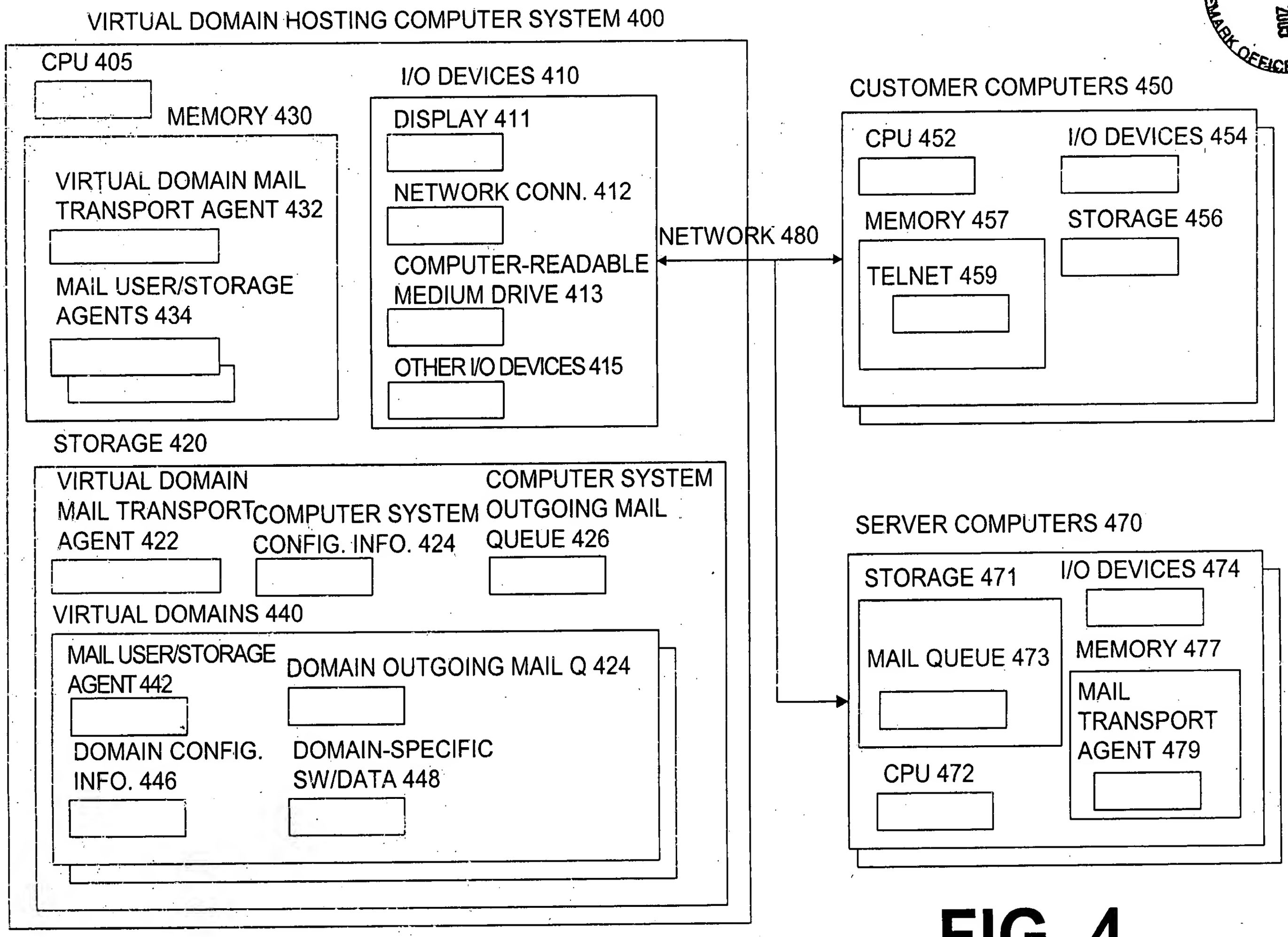

FIG. 4

Title: Using Virtual Network Address Information During Communications
Inventor(s): Qiaofeng Zhou
Serial No: 09/768,671; Page 7 of 10

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FIG. 5

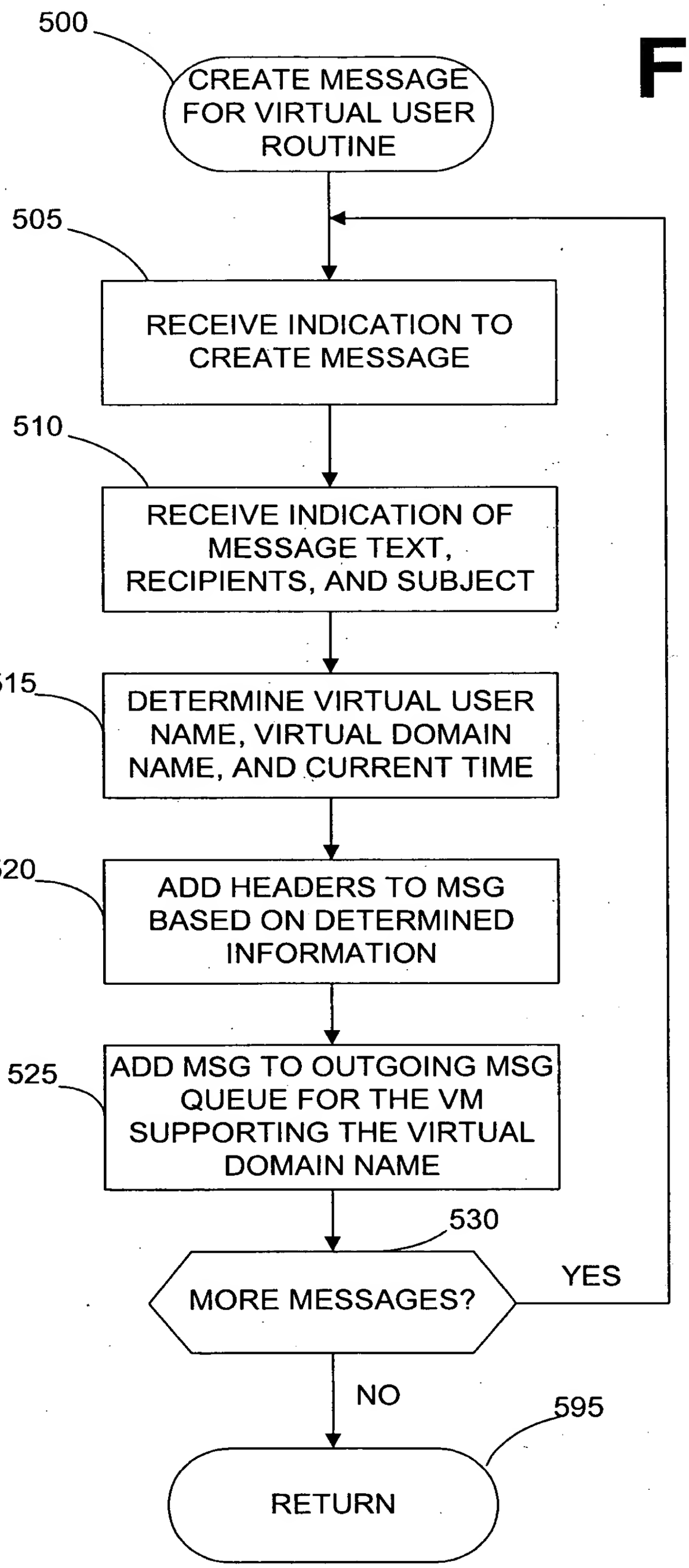

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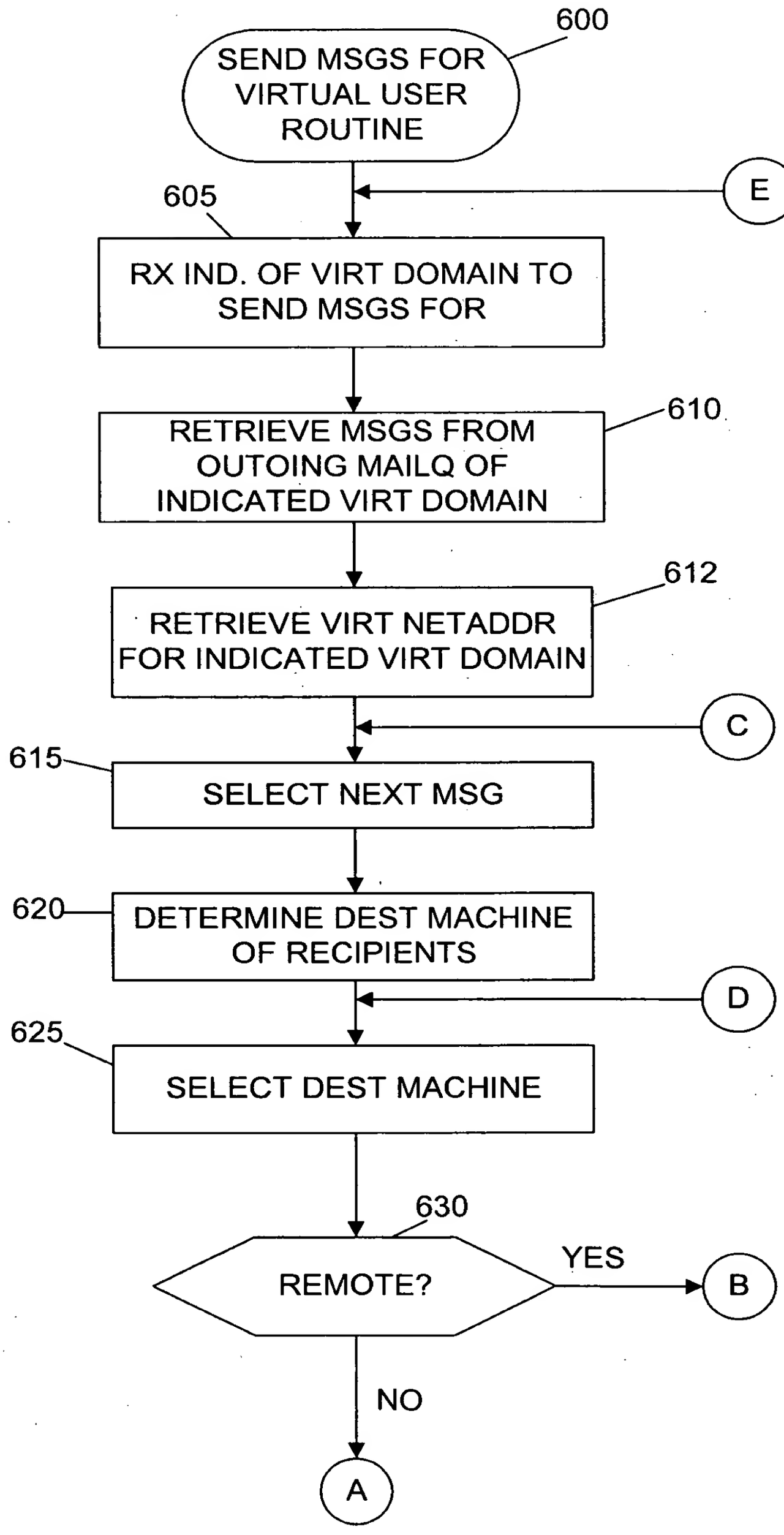
FIG. 6A



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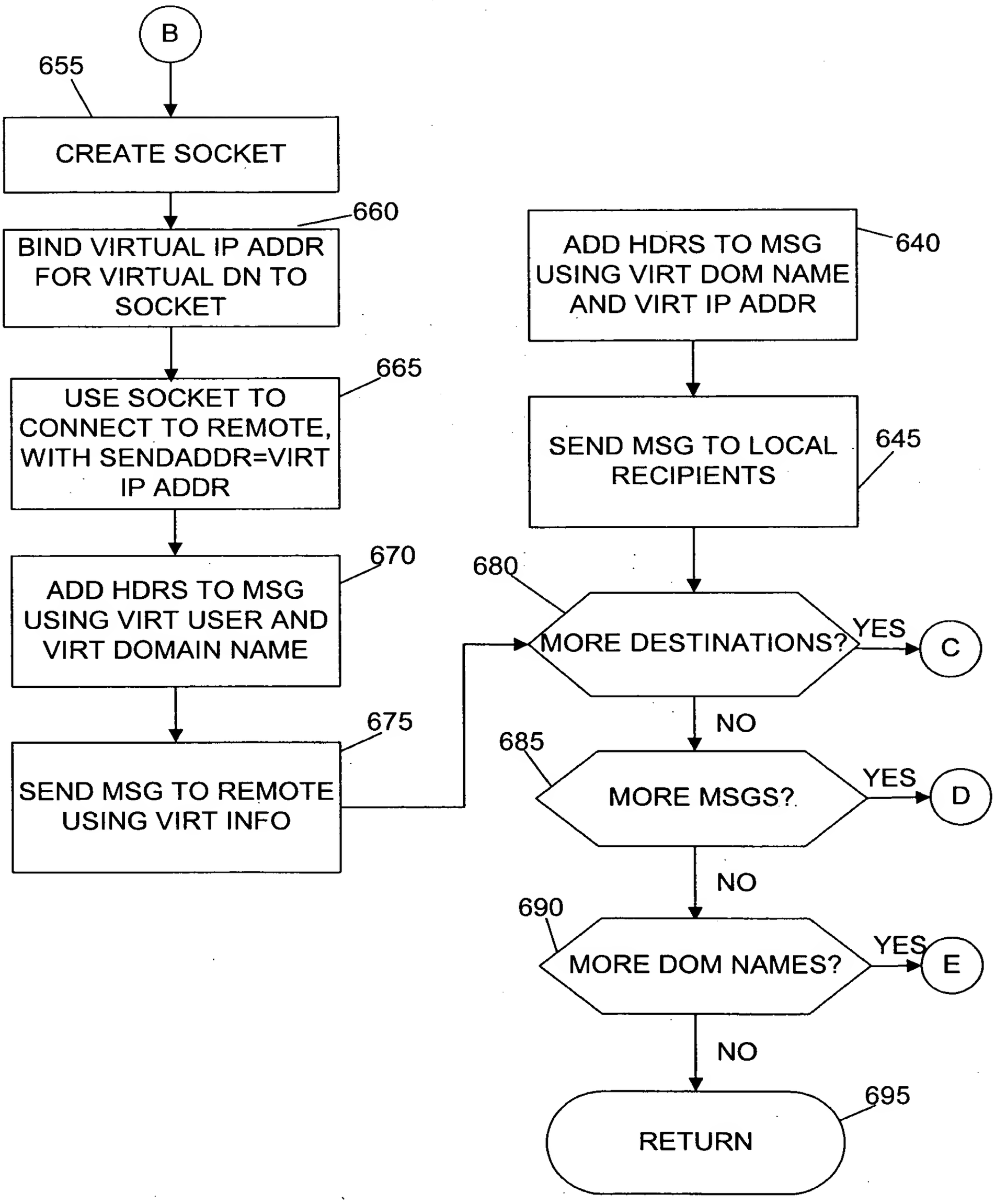
FIG. 6B